CWA COMPLIANCE EVALUATION INSPECTION REPORT
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION 5

Purpose: Compliance Evaluation Inspection

Facility:
Ex. 6 (Personal Privacy) Winding Acres Farm
Ex. 6 (Personal Privacy)
Ex. 6 (Personal Privacy)
Stephenson County
Ex. 6 (Personal Privacy)

NPDES Permit Number: N/A

Date of Inspection: September 24, 2020

EPA Representatives:
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State Representatives:
None

Facility Representatives:
Ex. 6 (Personal Privacy), Co-Owner Ex. 6 (Personal Privacy)

Report Prepared by:
Benjamin Atkinson, Agronomist

Inspector Signature and Date:
BENJAMIN ATKINSON Digitally signed by BENJAMIN ATKINSON Date: 2020.10.26 10:57:37 -05'00'

Approver Signature and Date:
Bahr, Ryan Digitally signed by Bahr, Ryan Date: 2020.10.26 16:33:23 -05'00'

1. BACKGROUND

The purpose of this report is to describe, evaluate and document [redacted] Winding Acres Farm's (Facility) compliance with the Clean Water Act (CWA) at its Freeport, Illinois facility on September 24th, 2020. This inspection was performed pursuant to Section 308(a) of the Federal Water Pollution Control Act, as amended.

The Facility is a medium Animal Feeding Operation based on their having approximately 450 mature milking cows. The Facility also has approximately 170 heifers, 80 calves, and 35 beef cattle. There have historically also been swine raised at the Facility. The swine buildings are still present but are not being utilized.

Surface runoff from the facility flows to the southeast approximately 3,000 feet along grassed waterways to an unnamed intermittent tributary. The unnamed tributary then flows approximately 650 feet to the perennial Yellow Creek. Yellow Creek flows approximately 17.5 miles to the Pecatonica River, a Traditionally Navigable Water.

The Illinois Environmental Protection Agency (IEPA) conducted an inspection on 5/29/2019 and observed flow from the underbuilding pit below the Old Milk Barn to the grassed waterway to the east. The IEPA inspector followed up on 06/04/2019 and was informed that the underbuilding pit had been pumped.

2. SITE INSPECTION

Table 1: Site Entry and Opening Conference

Arrival Time:	11:11 AM
Temperature:	70 F
Precipitation:	None.
Presented credentials?	Yes.
Credentials presented to whom and at what time?	To the Operator at 11:12.
Was an opening conference held? With whom?	Yes, with the Operator.
If photographs or documents were taken, does the facility consider any to be Confidential Business Information (CBI)?	No.
EPA vehicle parked in approved location?	Yes.
Location where EPA vehicle was parked?	On access road.
Disposable boots worn?	Yes.
Other bio-security measures taken (state vet contacted, etc.):	State vet contacted and no other AFO visited in prior two weeks.

2.1 Records Review (The following Records Review tables reflect information provided before the walk-through of the facility, unless otherwise noted.)

Table 2: Documents

Checklist(s) Used:
R5 CAFO Inspection Checklist.
Facility Documents Reviewed:
NMP
Sample of land application records.

Table 3: Facility Description

Type of Animal	**Number of Animals**	**Capacity**	**Type of Confinement**
Mature dairy cows	408		
Cattle other than mature dairy cows	285		
		800	Freestall barns
Minimum Number of Animals in previous 5 years:			120
Maximum Number of Animals in previous 5 years:			Current Numbers.
Number of Animals that are stabled/confined and/or fed/maintained for 45 days or more in previous 12 months:			Current Numbers.
Amount of Liquid Manure Generated per year:			~3.75 million gallons.
Amount of Solid Manure Generated per year:			Unknown.
(Illinois Only) Name of Certified Livestock Manager for facility: (if 300 animal units or greater):			The Operator.
Does the facility have an NPDES Permit?			No.
SIC or NAICS code:			0241
Do animals have direct access to WOUS?			No.
Are crops, vegetation, forage growth, or post harvest residues sustained in the normal growing season over any portion of the lot or facility where animals are kept?			No.
What is the area (acres) of the production area?			Unknown to the Operator offhand.
How many employees (not counting family members)?			2 full time, 6 part time.
Other facilities under common ownership (name and address):			None.

Table 4: Livestock Waste Storage

Type of Storage	Storage Capacity	Type of Liner	Depth Markers Present	Last Time Waste was Removed	Amount of Waste Removed	Days of Storage
Pit "Big Pit"	4.5 Million Gallons	Concrete	Yes	Week of 9/20/20	~1-1.5 million gallons	365+
Pit with solids separation "Little Pit"	Unknown	Concrete	Yes	Week of 9/20/20	Unknown	Unknown
The Beef Barn, Calf Barn 3, and Old Dairy Barn all have 8 foot deep underbuilding pits. The Milking Parlor has a 10 foot deep underbuilding pit. The vacant swine buildings have unused underbuilding pits.						
Records at site of storage structure design?				Present on site.		
Is manure stored for the short term? If yes, describe where it is stored, how it is drained and where it drains to.				There are no temporary outdoor manure storage sites.		
Are records kept of the level of manure in the storage structures?				No.		
When was the last time a storage structure was emptied, either partially or completely?				Manure was hauled from the Big Pit and Little Pit the week of the inspection.		
What amount of manure or process wastewater was removed the last time the storage structure was emptied, either partially or completely?				Approximately 1 to 1.5 million gallons of liquid manure was land applied.		
Do the facility personnel inspect and keep records of all diversion devices?				No.		
Do the facility personnel inspect and keep records of all impoundments?				No.		
Do the facility personnel inspect and keep records of all the water lines?				No.		
Do the facility personnel perform routine visual inspections and keep records of the production area?				Routine visual inspections are conducted during operation of the facility, but no records are kept.		
Does the waste storage system have a managed outfall or discharge point? If yes, provide a description of the outfall and a description of the area receiving the discharge.				No.		
Has the facility had any documented discharges of livestock waste to surface water in the past year?				No.		

Are there safety devices installed around any manure storage ponds? (Barriers at the end of manure push off platforms, fences around pond, signage.)	Yes.

Table 5: Livestock Waste Management

Describe the way manure is collected and disposed of at the facility:	
Manure from the Big Barn is manually scraped to the Big Pit. Manure from the Middle Barn is manually scraped to the Little Pit which then flows to the Big Pit. Manure from the Beef Barn falls into the underbuilding pit. Manure and runoff from the Steer Lot flows to the underbuilding pit below the Old Dairy Barn which no longer houses animals. Calf Barn 1 manure is manually scraped to an underroof manure loading area. Manure from Calf Barn 2 and Calf Barn 3 flow into the underbuilding pit under Calf Barn 3.	
Describe the way used bedding is collected and disposed of at the facility:	
The Big Barn, Middle Barn, Beef Barn, Calf Barns, and Steer Lot use sand as bedding which is collected with the manure and land applied. The outdoor calf hutches use a base of agricultural lime topped with straw and/or corn stalks. As the young calves are moved to the Calf Barns, the bedding is scraped and land applied.	
Are mortality records kept?	Yes.
Describe the way mortalities are managed at the facility:	
Mortalities are handled with a combination of composting (primarily used for calves) and rendering (for full size animals).	
What type of method is used to provide drinking water for the animals?	Animals are provided water via water tanks with floats.
Describe the way spilled drinking water is collected and disposed of at the facility:	
Spilled drinking water is collected and disposed of with manure.	
Describe the way mist cooling water is collected and disposed of at the facility:	
Mist cooling is not used at the Facility.	
Describe how chemicals are stored and how used or spilled chemicals are collected and disposed of at the facility:	
Chemicals related to the milking operation are stored in a utility room which has a floor drain that flows to the Big Pit.	
Describe the way water that has been used to wash/flush barns is collected and disposed of at the facility:	
No flush water is used.	

Describe the way feed is contained and how runoff from feed is collected and disposed of at the facility:
Silage is contained in a combination of Harvestore Silos, silage bags, and silage pads. There is some haylage in haylage bags. Dry commodities are stored in barns. The Operator stated that they had never had an issue with silage leachate leaving the silage bags or pads until this year when, on the advice of their ag advisor, they put up their silage with a higher moisture content. As described in the walkthrough below and seen in the photolog, there is currently leachate leaking from the North Silage Pad which the Operator is collecting with a series of berms. The Operator states that he scrapes the areas daily and places the leachate in the Big Pit.
If a dairy, describe how process wastewater from the plate cooler water is collected and disposed of at the facility:
Plate cooler water is stored in an underground tank and used for drinking water.
If a dairy, describe how process wastewater from the cleaning of the milking parlor is collected and disposed of at the facility:
The Milking Parlor has its own 10 foot deep underbuilding pit which collects manure and process wastewater from the Milking Parlor. The underbuilding pit is pumped and land applied.
If a dairy, describe how process wastewater from the cleaning of the milk tanks is disposed of at the facility:
Milk tank wash water is collected in the underbuilding pit.

If a dairy, how many times per day are cows milked?	Twice daily.

Table 6: Land Application and Disposal of Manure and Process Wastewater

Does the facility perform and keep records of the manure testing?	Yes.
When was the last time a sample was taken of the manure and/or process wastewater?	They had been collected but not sent for analysis on the week of the inspection.
Describe the process to take the manure and/or process wastewater sample.	Grab sample while pumping.
Number of acres available for land application:	800
Are land application records kept?	Yes.
Who applies the manure and process wastewater to the fields?	The Operator.

Are weather conditions at time of application kept? (24 before – 24 after)	No.
Does the facility perform and keep records of the soil testing?	Yes.
Is manure transferred off-site to another party?	No.
Do facility personnel perform periodic inspection of land application equipment?	Yes.

Table 7: Receiving Surface Waters

Describe the surface flow pathways:	
Surface runoff from the facility flows to the southeast approximately 3,000 feet along grassed waterways to an unnamed intermittent tributary. The unnamed tributary then flows approximately 650 feet to the perennial Yellow Creek. Yellow Creek flows approximately 17.5 miles to the Pecatonica River, a Traditionally Navigable Water.	
How many months out of the year is there flow in the nearest surface water pathway:	At least seasonally.
Are there any storm water pathways entering the facility?	No.
Are there any clean water ponds on site?	No.
What is the name of the first waterway that is identified as a Traditional Navigable Water (TNW) for surface flow from the facility?	Pecatonica River.
Is the surface water pathway nearest to the facility considered to be ephemeral, intermittent or perennial?	Intermittent.
Has the surface water pathway nearest to the facility been assessed for water quality?	No.

Table 8: Nutrient Management Plan

NMP on site?	Yes.
Date NMP Submitted:	January of 2013.
Planner Name/Company:	Matt Wagner.
Date that the NMP was last updated:	September 2020.
Storage Description:	Yes.
Amount of Manure Generated:	Yes.
Capacity of Storage:	Yes.
Duration of Storage:	Yes.
Amount of Spreadable Land:	Yes.
Mortality Management Plan:	Yes.
Clean Water Diversion System:	No.

Direct Contact Prevention Plan:	Yes.
Chemical Management Plan:	No.
Conservation Practices:	Yes.
Manure Testing Protocols:	Yes.
Soil Testing Protocols:	Yes.
Land Application Protocols:	Yes.
Does the NMP reflect the current operational characteristics?	Yes.
Are the number of acres owned/leased consistent with what is listed in the NMP?	Operator stated that he is only farming 30 acres more than is listed in the NMP.

2.2 Walkthrough of the Facility

Ex. 6 (Personal Privacy) (Operator) had been contacted by phone prior to the inspection to confirm that no one at the Facility was known to be exhibiting any COVID-19 like symptoms or had knowingly come in contact with someone who had and to find out if there were any safety measures beyond face coverings, hand sanitizer, and social distancing that the Operator would prefer EPA adopt for the inspection. The Operator confirmed that no one at the Facility had exhibited any COVID-19 like symptoms nor knowingly come into contact with someone who had. The Operator also stated that he was comfortable conducting the inspection with the safety measures taken by EPA.

Ben Atkinson, Joan Rogers, and Val Dooling (the Inspectors) arrived at the Facility at 11:11 AM. The Inspectors verified where they should park and donned their biosecurity booties and facial coverings. The Inspectors then presented their credentials to the Operator. In order to assist social distancing, all interview and inspection activities were conducted outdoors. The Inspectors began the inspection with an opening conference in which they described the purpose and structure of the inspection, notified the Operator of his ability to claim Confidential Business Information (CBI), and explained EPA's photo and sample collection procedures. The Inspectors then began the interview, checklist, and record review portion of the inspection. During the records review, the Inspectors asked the Operator to identify the presence or absence of certain records and then had him lay out a few examples of his land application maps and application records which the Inspectors photographed (photos 1-3).

Following the interview portion of the inspection, the Inspectors began the walkthrough of the Facility. Refer to maps in Appendix A and the Photolog in Appendix B. The Inspectors began on the west side of the Facility and observed the Outdoor Calf Hutch Area (photo 4). The Inspectors did not observe any evidence of runoff from this area but did inform the Operator that runoff from calf hutch areas may be considered process wastewater and encouraged him to be mindful of the area to ensure no discharges occurred.

The Inspectors then walked south around the west silage bag area (photos 5 and 6). The Inspectors continued south past the west side of the Big Barn (photo 7) and then east along the south side of the Big Barn to the manure push out area on the east side of the Big Barn (8). The Inspectors observed the mortality composting area in the northwest corner of the manure push out area and that the north and south edges of the manure pushout area were raised to prevent manure or runoff from flowing anywhere other than to the Big Pit (photos 8-10). The Inspectors observed an area of freshly disturbed soil at the south end of the Big Pit. The Inspectors observed some partially decomposed animal remains in the disturbed area (photos 11 and 12). The Operator stated that he was working on building a new loadout area for the Big Pit and that they had used some of their mortality compost as fill. The Inspectors suggested that the animal remains that were not completely composted should be removed and returned to the new compost pile to ensure that no mortality leachate left the site.

The Inspectors then walked east around the south end of the Big Pit and north along the east side of the Big Pit. The Inspectors observed the depth marker in the Big Pit and the manure push out area from the Middle Barn (photos 13 and 14). The Inspectors then walked west around the north end of the Big Pit and observed a flow path coming from the northeast corner of the Little Pit which appeared to flow east to a berm which directed it to the Big Pit (photos 15-17). The Operator stated that he had observed the leak in the Little Pit and was in the process of cleaning it out enough to repair it. The Inspectors walked around the Little Pit (photos 18-20).

The Inspectors then walked north to the Old Dairy Barn (photos 21-23). The Operator stated that no animals were housed in the Old Dairy Barn, but that the underbuilding pit was used to collect manure and runoff from the Steer Lot.

The Inspectors continued North and observed the Beef Barn (photo 24) and then observed, between the Beef Barn and the Steer Lot, silage leachate that appeared to have leaked from the North Silage Pad (photo 25). It appeared that the Operator had formed berms to collect the leachate. The Operator stated that due to unusually wet silage he had been collecting and scraping the leachate daily. He stated that this was the first year they had encountered that problem and intended to return to putting up their silage drier the following year.

The Inspectors walked west and observed the east side of the Steer Lot. The Inspectors observed gutters on the Steer Lot to direct roof runoff away from the lot (photos 26-28). The Inspectors walked south and then west around the Steer Lot and observed the cattle walkway with mountable curbs which directed manure and runoff from the Steer Lot to the underbuilding pit below the Old Dairy Barn (photos 29 – 30). The Inspectors then Observed two surface inlets (photos 31-32). The Operator stated that these inlets conveyed stormwater away from the barns to the grassed waterway to the east.

The Inspectors then walked back east and north past the east end of the Beef Barn. The Inspectors noted to the Operator that the open end of the feed trough allowed any runoff

from the feed trough to flow out of the building (photo 34). The Operator stated that he could cover the end of the trough to ensure that nothing flowed out of the building.

The Inspectors walked north pasted the east end of the North Silage Pad and observed further leachate and collection berms (photos 35 and 36). The Inspectors informed the Operator that the leachate is considered process wastewater and that he should ensure that it did not discharge to a waterway. The Operator stated that he thought he could build a double berm to ensure that no leachate left the site until they could use the feed on the silage pad.

The Inspectors then walked west around the North Silage Pad and silage and haylage bags then south around the west side of the Calf Barn 1, 2, and 3 and observed the manure loading area at the southeast corner of Calf Barn 1 (photos 37 and 38). The Inspectors then walked south past the Comodity Building (photo 39) and observed an additional storm water inlet on the west side of the covered walkway between the Old Dairy Barn and the Middle Barn (photo 40).

The Inspectors walked south and observed the access riser for the plate cooler water tank (photo 41) on the south side of the Milking Parlor. The Inspectors also observed two surface drain inlets on the north side of the Big Barn (photos 42-45). The Operator stated that these drains conveyed stormwater runoff under the Big Barn to the southeast.

The Inspectors walked back around the south side of the Big Barn and observed an outlet pipe on the hillslope southeast of the Big Barn (photo 46). The Operator stated that this pipe was the outlet for the inlets seen on the northside of the Big Barn as well as an inlet in the grassed area east of the Milking Parlor. The Inspectors walked to the grassed area east of the Milking Parlor and observed an outlet in the northwest corner of the grassed area (photo 47) which the Operator stated was from a drain on the northside of the Milking Parlor and an inlet in the southeast corner (photo 48) which the operator stated conveyed flow to the outlet seen southeast of the Big Barn (photo 46).

The Inspectors then returned to their vehicles and consulted briefly before holding the closing conference.

2.3 Closing Conference and Post-Inspection

Table 12: Post Walk-Through

Was a closing conference held? With whom?	Yes, with the Operator.
Were specific Areas of Concern discussed with facility personnel?	Yes.
Who were the Areas of Concern discussed with?	The Operator.

Were any deficiencies or areas of concern addressed or fixed during the inspection? If so, list what was done.	No.
Exit Time:	2:54 PM.
Disposable Boots Left at Facility?	Yes.

Table 13: Waterway Documentation

List the pathway taken by EPA inspectors to document the waterway at the facility.
No discharges were observed so no waterways were documented.

Table 14a: Sampling Information

Were samples taken?	No.

3. AREAS OF CONCERN

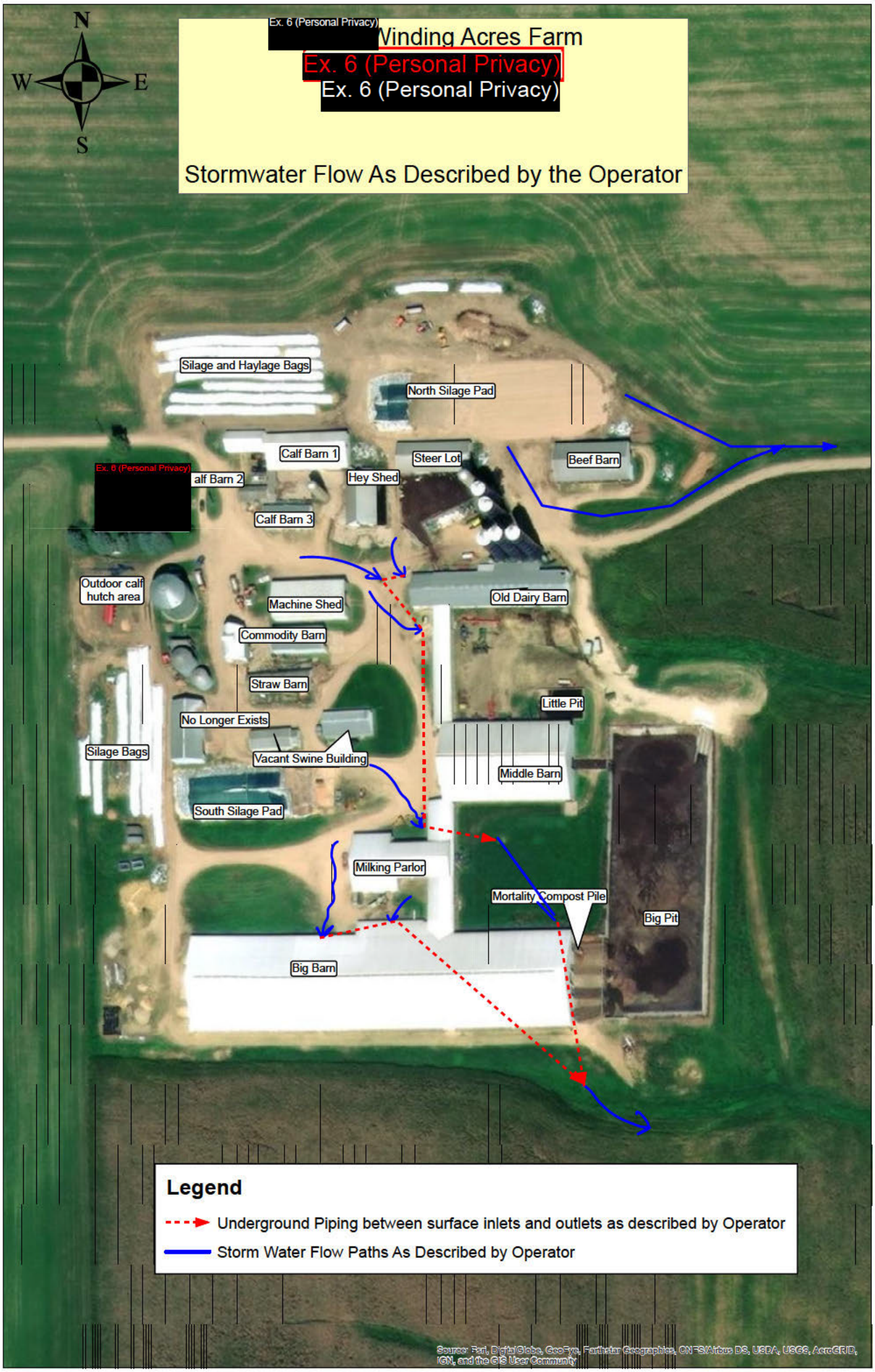
EPA observed these areas of concern:

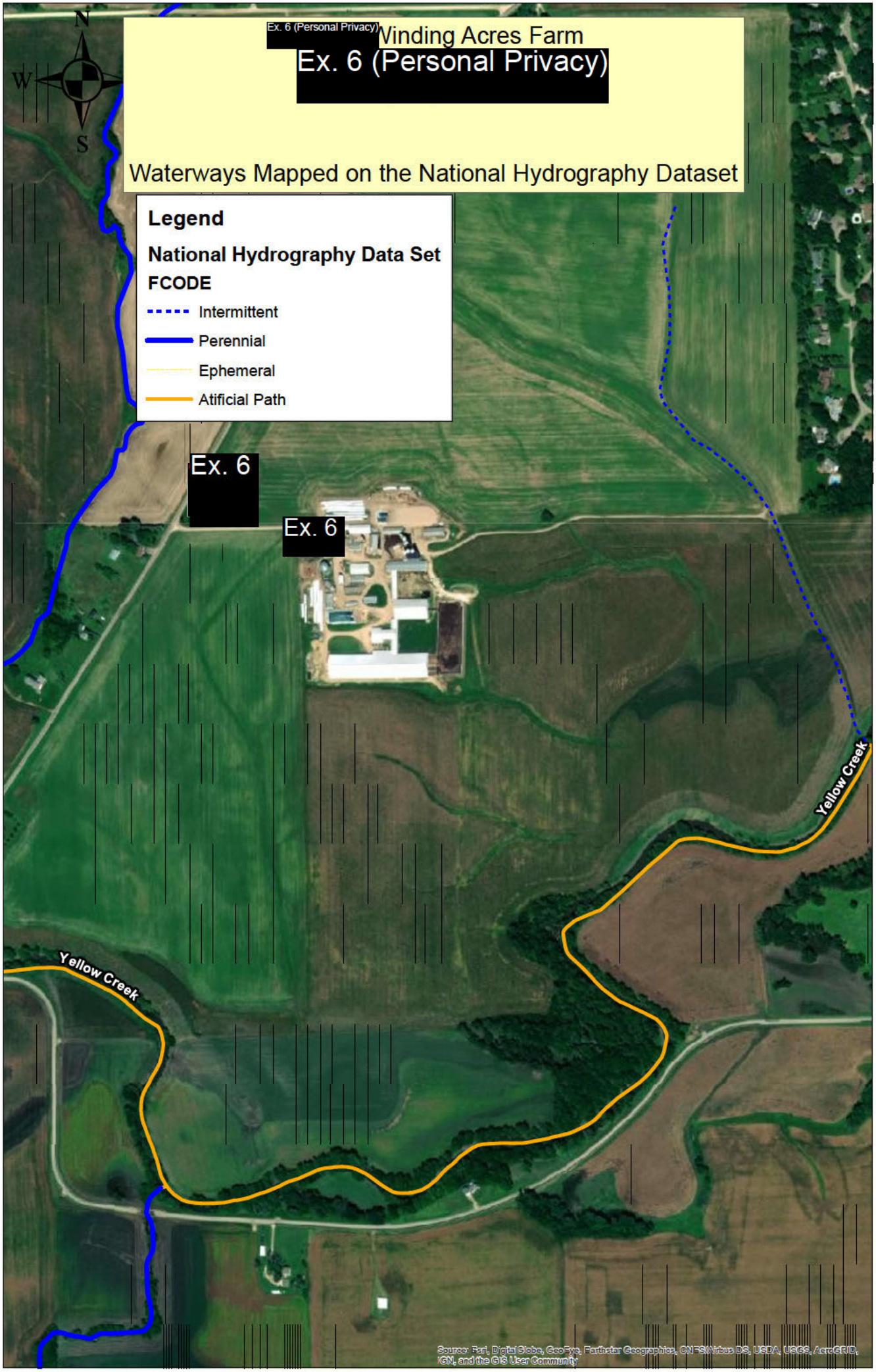
1. Leachate from the North Silage Pad was observed leaving the pad.
2. Partially decomposed mortalities were observed in the filled area south of the Big Pit.
3. The Little Pit had a leak in the northeast corner.

4. LIST OF ATTACHMENTS

A) Aerial photograph of [redacted] Winding Acres Farm with buildings, waterways and discharge pathways labeled.
B) Photo Log.

Attachment A - Aerial Photographs


N
W
E
S
Ex. 6 (Personal Privacy)
Winding Acres Farm
Ex. 6 (Personal Privacy)
Ex. 6 (Personal Privacy)
Stormwater Flow As Described by the Operator
Silage and Haylage Bags
North Silage Pad
Calf Barn 1
Steer Lot
Beef Barn
Ex. 6 (Personal Privacy)
alf Barn 2
Hey Shed
Calf Barn 3
Outdoor calf hutch area
Machine Shed
Old Dairy Barn
Commodity Barn
Straw Barn
Little Pit
No Longer Exists
Silage Bags
Vacant Swine Building
Middle Barn
South Silage Pad
Milking Parlor
Mortality Compost Pile
Big Pit
Big Barn
Legend
Underground Piping between surface inlets and outlets as described by Operator
Storm Water Flow Paths As Described by Operator
Source: Esri, Digital Globe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

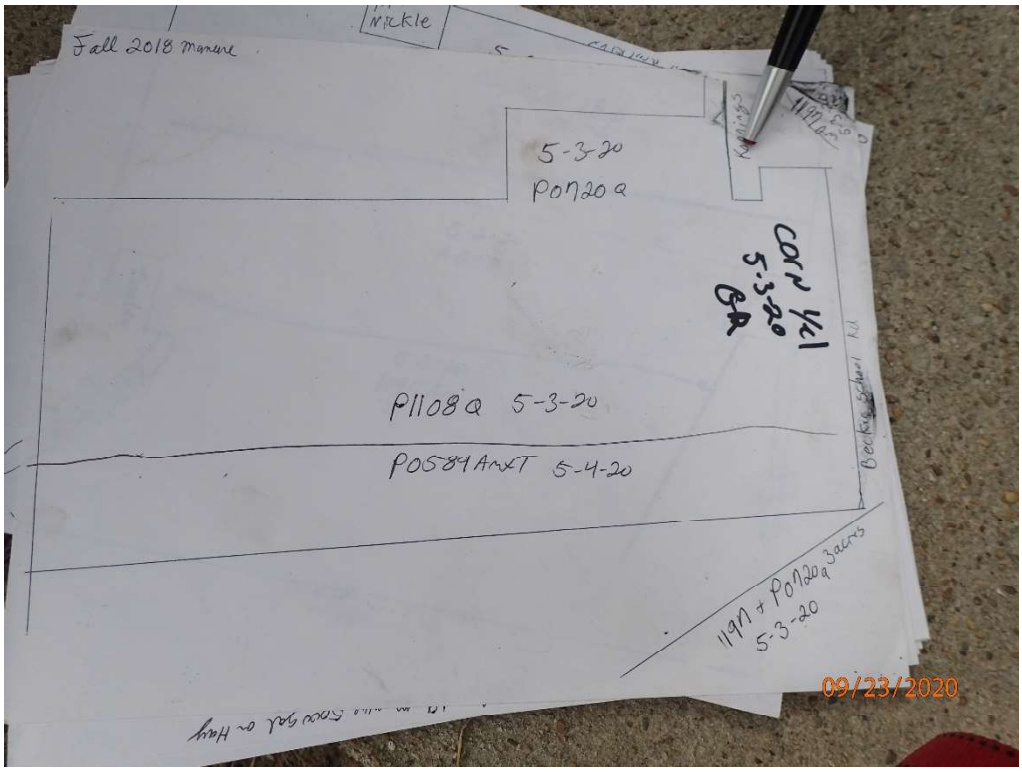

Ex. 6 (Personal Privacy)
Winding Acres Farm
Ex. 6 (Personal Privacy)
Waterways Mapped on the National Hydrography Dataset
Legend
National Hydrography Data Set
FCODE
Intermittent
Perennial
Ephemeral
Atificial Path
Ex. 6
Ex. 6
Yellow Creek
Yellow Creek
N
W
S
Source: Esri, Digital Globe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Attachment B - Photo Log

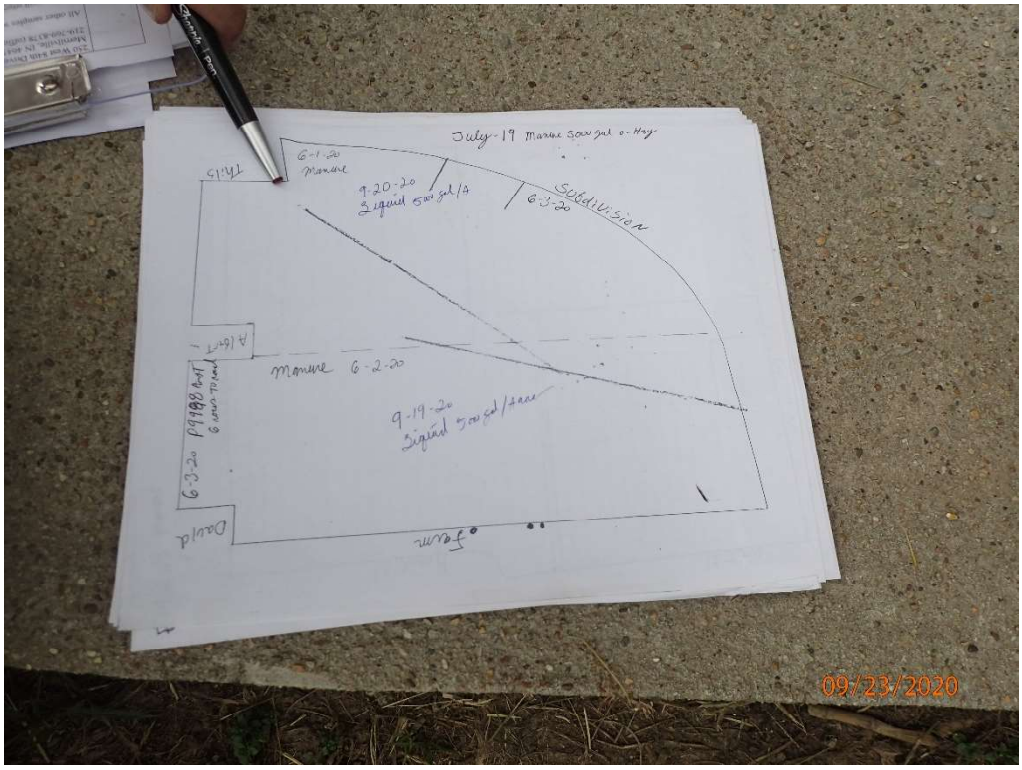
[redacted]Winding Acres Farm
EPA Inspection September 24, 2020
All photos taken by Joan Rogers, Environmental Scientist, U.S. EPA
Camera: Olympus TG-4

Note: Photos 1 – 10 (P9230001 - P9230010) have an incorrect date stamp. The date stamp on the subsequent photos are correct. The correct date/time is noted for each photo in the descriptions

1: P9230001
Description: Example of field map and land application records.
Location: NA
Camera Direction: NA
Date/Time: September 24, 2020 12:06 PM



2: P9230002
Description: Example of field map and land application records.
Location: NA
Camera Direction: NA Date/Time: September 24, 2020 12:06 PM



3: P9230003
Description: Example of field map and land application records.
Location: NA
Camera Direction: NA Date/Time: September 24, 2020 12:07 PM

4: P9230004
Description: Outdoor calf hutch area.
Location: West side of Facility.
Camera Direction: West
Date/Time: September 24, 2020 12:14 PM

5: P9230005
Description: Sand sealing South end of silage bags on west side of Facility.
Location: West side of Facility.
Camera Direction: Southeast
Date/Time: September 24, 2020 12:19 PM

6: P9230006
Description: Looking northeast along silage bags on the west side of the Facility.
Location: Southwest side of the Facility.
Camera Direction: Northeast
Date/Time: September 24, 2020 12:20 PM

7: P9230007
Description: New sand bedding stacked on the west side of the Big Barn.
Location: West side of the Big Barn
Camera Direction: Northeast
Date/Time: September 24, 2020 12:22 PM

8: P9230008
Description: Manure pushout area on the east side of the Big Barn. Note the mountable curb to prevent runoff from leaving the area. Big Pit in the distance beyond the guardrail.
Location: East side of the Big Barn.
Camera Direction: Northeast
Date/Time: September 24, 2020 12:25 PM

9: P9230009
Description: Looking north from the southwest corner of the Big Pit. Big Barn manure push off to the left.
Location: Southwest corner of the Big Pit.
Camera Direction: North
Date/Time: September 24, 2020 12:27 PM

10: P9230010
Description: New mortalitiy compost pile located in northwest corner of Big Barn manure pushout area.
Location: Northwest corner of Big Barn's manure pushout area.
Camera Direction: North
Date/Time: September 24, 2020 12:28 PM

11: P9240011
Description: Recently filled area south of the Big Pit. Note presence of waste plastic silage bags and there was an exposed partially composted mortality.
Location: South of the Big Pit.
Camera Direction: Down
Date/Time: September 24, 2020 12:34 PM

12: P9240012
Description: Recently filled area south of the Big Pit. Note presence of waste plastic silage bags and there was an exposed partially composted mortality.
Location: South of the Big Pit.
Camera Direction: Southeast
Date/Time: September 24, 2020 12:34 PM

13: P9240013
Description: Big Pit as seen from the east side. Note depth gauge (red arrow).
Location: Center of east side of the Big Pit.
Camera Direction: West
Date/Time: September 24, 2020 12:38 PM

14: P9240014
Description: Manure push off area of the Middle Barn.
Location: Northeast end of the Big Pit.
Camera Direction: West
Date/Time: September 24, 2020 12:38 PM

15: P9240015
Description: Berm built to contain and direct leak from the Little Pit to the Big Pit.
Location: East of the Little Pit.
Camera Direction: Southeast
Date/Time: September 24, 2020 12:41 PM

16: P9240016
Description: Leak from the Little Pit.
Location: Northeast corner of the Little Pit.
Camera Direction: West
Date/Time: September 24, 2020 12:41 PM

17: P9240017
Description: Flow path of leak from the Little Pit along the berm toward the Big Pit.
Location: Northeast corner of the Little Pit.
Camera Direction: Southwest
Date/Time: September 24, 2020 12:42 PM

18: P9240018
Description: View of the interior of the northeast corner of the Little Pit.
Location: Northeast corner of the Little Pit.
Camera Direction: East
Date/Time: September 24, 2020 12:43 PM

19: P9240019
Description: Little Pit as seen from the northwest corner. Liquids enter this center section through the slatted weep wall.
Location: Northwest corner of the Little Pit.
Camera Direction: Southeast
Date/Time: September 24, 2020 12:44 PM

20: P9240020
Description: Little Pit as seen from the west side. Center portion collects liquids from the slatted weep wall.
Location: West side of the Little Pit.
Camera Direction: East
Date/Time: September 24, 2020 12:44 PM

21: P9240021
Description: Pump out location of pit under the Old Dairy Barn.
Location: Southeast side of the Old Dairy Barn.
Camera Direction: North and down
Date/Time: September 24, 2020 12:47 PM

22: P9240022
Description: Pump out location of pit under the Old Dairy Barn.
Location: Southeast side of the Old Dairy Barn.
Camera Direction: North
Date/Time: September 24, 2020 12:47 PM

23: P9240023
Description: Interior of the Old Dairy Barn as seen from the east end. Note slatted floor above under barn pit.
Location: East end of the the Old Dairy Barn.
Camera Direction: West
Date/Time: September 24, 2020 12:49 PM

24: P9240024
Description: Looking northeast along south side of the Beef Barn.
Location: Southwest of the Beef Barn.
Camera Direction: Northeast
Date/Time: September 24, 2020 12:50 PM

25: P9240025
Description: Silage leachate from the North Silage Pad being collected behind a berm between the Beef Barn and the Steer Lot.
Location: South of the North Silage Pad between the Beef Barn and the Steer Lot.
Camera Direction: Northwest
Date/Time: September 24, 2020 12:51 PM

26: P9240026
Description: Looking west toward the Steer Lot.
Location: Between the Beef Barn and the Steer Lot.
Camera Direction: West
Date/Time: September 24, 2020 12:52 PM

27: P9240027
Description: Closer look at the gate on the east side of the Steer Lot. The Operator stated the lot was sloped so that all manure and process wastewater runoff from the lot would be collected into the pit under the Old Dairy Barn. Raised concrete below the gate prevented manure and process wastewater from flowing to the east.
Location: East side of the Steer Lot.
Camera Direction: Southwest
Date/Time: September 24, 2020 12:52 PM

28: P9240028
Description: East side of the Steer Lot. Note gutter and downspout directing roof water away from the Steer Lot.
Location: East side of the Steer Lot.
Camera Direction: West
Date/Time: September 24, 2020 12:54 PM

29: P9240029
Description: Curbed walkway between the Steer Lot and the Old Dairy Barn that conveys manure and process wastewater runoff to the pit under the Old Dairy Barn.
Location: Southwest end of the Steer Lot.
Camera Direction: Northwest
Date/Time: September 24, 2020 12:57 PM

30: P9240030
Description: Curbed walkway between the Steer Lot and the Old Dairy Barn that conveys manure and process wastewater runoff to the pit under the Old Dairy Barn.
Location: Northwest end of the Old Dairy Barn.
Camera Direction: South
Date/Time: September 24, 2020 12:57 PM

31: P9240031
Description: Stormwater inlet collects runoff from the roads and conveys it to the east side of the Facility.
Location: Northwest corner of the Old Dairy Barn.
Camera Direction: South
Date/Time: September 24, 2020 12:58 PM

32: P9240032
Description: Stormwater inlet collects runoff from the roads and conveys it to the east side of the Facility. Note that this is a separate storm water drain than the one seen in Photo 31.
Location: West of stormwater drain seen in Photo 31.
Camera Direction: Southeast
Date/Time: September 24, 2020 12:59 PM

33: P9240033
Description: Looking North between the Hay Shed (left) and the Steer Lot (right). The west end of the North Silage Pad is seen in the distance.
Location: Southwest of the Steer Lot.
Camera Direction: North
Date/Time: September 24, 2020 1:00 PM

34: P9240034
Description: Looking into the east end of the Beef Barn. Feed trough does not have containment on the end and feed and process wastewater can leave the trough.
Location: East side of the Beef Barn.
Camera Direction: West
Date/Time: September 24, 2020 1:02 PM

35: P9240035
Description: Looking west at the east end of the North Silage Pad. Note the silage leachate being collected by the berm.
Location: East side of the North Silage Pad.
Camera Direction: West
Date/Time: September 24, 2020 1:03 PM

36: P9240036
Description: Looking west at the east end of the North Silage Pad. Note the silage leachate being collected by the berm.
Location: East side of the North Silage Pad.
Camera Direction: West
Date/Time: September 24, 2020 1:06 PM

37: P9240037
Description: Looking east along the south side of Calf Barn 3.
Location: Southwest of Calf Barn 3.
Camera Direction: East
Date/Time: September 24, 2020 1:13 PM

38: P9240038
Description: Manure loading area on the east side of Calf Barn 1. Manure and used bedding from the calf barn is stored here until it can be land applied.
Location: Southeast corner of Calf Barn 1.
Camera Direction: North
Date/Time: September 24, 2020 1:15 PM

39: P9240039
Description: Looking west into the Commodities Building. Dry gluten and additional dry commodities were stored in here.
Location: East of the Commodities Building.
Camera Direction: West
Date/Time: September 24, 2020 1:18 PM

40: P9240040
Description: Surface inlet (denoted by the circle) west of the covered cattle walkway between the Old Dairy Barn and the Middle Barn. This inlet conveys flow to the east side of the Facility.
Location: Southwest side of the Old Dairy Barn.
Camera Direction: South
Date/Time: September 24, 2020 1:20 PM

41: P9240041
Description: Area between the milking parlor the Big Barn. Note the access riser for the plate cooler water (arrow).
Location: South of Milking Parlor.
Camera Direction: East
Date/Time: September 24, 2020 1:27 PM

42: P9240042
Description: Surface inlet for drain tile that outlets storm water flow to the southeast of the facility.
Location: North side of the Big Barn west of the covered walkway.
Camera Direction: Down
Date/Time: September 24, 2020 1:28 PM

43: P9240043
Description: Surface inlet for drain tile that outlets storm water flow to the southeast of the facility. Same inlet as seen in Photo 42.
Location: North side of the Big Barn west of the covered walkway.
Camera Direction: Southwest
Date/Time: September 24, 2020 1:28 PM

44: P9240044
Description: Additional surface inlet to drain tile on the north side of the Big Barn.
Location: North side of the Big Barn, west of Photo 43.
Camera Direction: Down
Date/Time: September 24, 2020 1:29 PM

45: P9240045
Description: Additional surface inlet to drain tile on the north side of the Big Barn. Same inlet as seen in Photo 44.
Location: North side of the Big Barn, west of photo 43.
Camera Direction: South
Date/Time: September 24, 2020 1:30 PM

46: P9240046
Description: Outlet of the surface inlets shown in Photos 42-45.
Location: Southeast of the Big Barn.
Camera Direction: North
Date/Time: September 24, 2020 1:35 PM

47: P9240047
Description: Outlet of surface drain north of the Milking Parlor to the grassed area east of the Milking Parlor.
Location: East of the Milking Parlor.
Camera Direction: Northwest
Date/Time: September 24, 2020 1:45 PM

48: P9240048
Description: Inlet of surface drain in the southeast corner of the grassed area east of the Milking Parlor. The Operator stated that this inlet was connected to the outlet seen in Photo 46.
Location: Southeast corner of grassed area eas of the Milking Parlor.
Camera Direction: South
Date/Time: September 24, 2020 1:47 PM